

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
6 May 2005 (06.05.2005)

PCT

(10) International Publication Number  
**WO 2005/041146 A1**

(51) International Patent Classification<sup>7</sup>: **G08C 17/02**,  
H04L 12/28, H05B 37/00

(21) International Application Number:  
PCT/GB2004/004403

(22) International Filing Date: 19 October 2004 (19.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
0324349.0 20 October 2003 (20.10.2003) GB  
0325711.0 4 November 2003 (04.11.2003) GB

(71) Applicant (for all designated States except US): **INTEL-  
LIGENT ELECTRICS (INTELLECTUAL PROP-  
ERTY) LIMITED** [GB/GB]; Sunny Acres, Bridport  
Road, Winterbourne Steepleton, Dorchester DT2 9DX  
(GB).

(72) Inventor; and

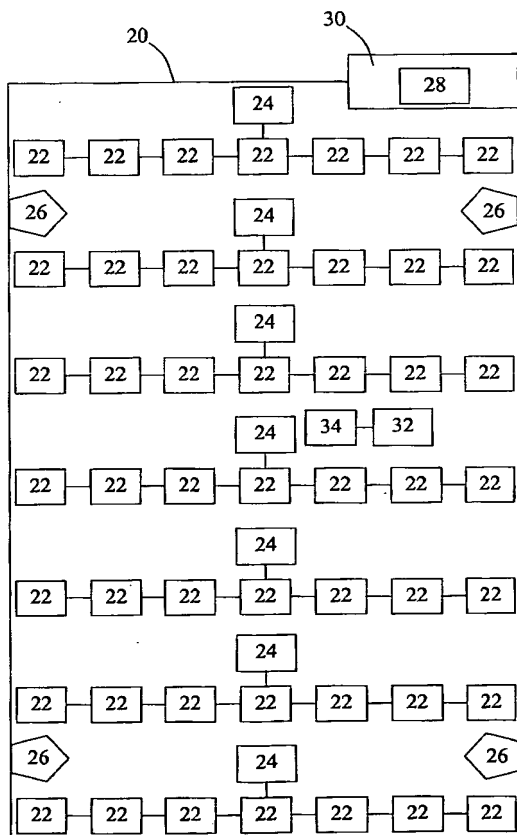
(75) Inventor/Applicant (for US only): **HARDWICK,  
Michael, Dennis** [GB/GB]; Sunny Acres, Bridport Road,  
Winterbourne Steepleton, Dorchester DT2 9DX (GB).

(74) Agents: **ATKINSON, Ralph** et al.; Atkinson Burrington,  
28 President Buildings, President Way, Sheffield S4 7UR  
(GB).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

[Continued on next page]

(54) Title: WIRELESS REMOTE CONTROL



(57) Abstract: Lighting units (22) in a room (20) are controlled au-  
tomatically and remotely in response to motion sensor modules (26)  
located to cover the area of the room (20). A sensor module (26) de-  
tecting movement transmits a radio signal to a controller module (28),  
which then transmits a corresponding control signal to the responder  
modules (24), causing them to switch their associated lighting units on  
and then increase their brightness to a preset level. The system includes  
an emergency lighting responder module (32) to switch on emergency  
lighting (34) if mains power fails and is also responsive to ambient light  
level. Each of the controller module (28), the sensor modules (26) and  
the responder modules (24) include a radio transceiver and all control  
and management signals are transmitted from location to location by  
radio. Other sensor modules (responsive to different variables) and  
responder modules may be added to build up a wireless building man-  
agement system.

WO 2005/041146 A1



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— *with international search report*

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*